

Technical Data Sheet

Vitamide BB37 BLACK 2-0010

Polyamide 6

Product Description

Vitamide BB37 BLACK 2-0010 is a Polyamide 6 Glass Bead, 35% filled material and is typically used in Injection Molding applications.

Processing Method Injection Molding

Filler/Reinforcement Glass Bead, 35%

Typical Properties	Nominal Value	Units	Test Method
Physical			
Density	1.14	g/cm ³	ISO 1183
Mechanical			
Tensile Strain at Break	6.5	%	ISO 527-2
Flexural Modulus	4000	MPa	ISO 178
Tensile Stress at Break	85	MPa	ISO 527-2
Flexural Stress	125	MPa	ISO 178
Impact			
Charpy Impact Strength - Notched	4	kJ/m ²	ISO 179
Notched Izod Impact Strength	4.5	kJ/m ²	ISO 180
Thermal			
Vicat Softening Temperature, (B (50N), 120 °C/h)	222	°C	ISO 306
Deflection Temperature Under Load Unannealed (0.45 MPa)	>200	°C	ISO 75-2/B
Deflection Temperature Under Load Unannealed (1.80 MPa)	150	°C	ISO 75-2/A
Melting Temperature	260	°C	ISO 11357-3
Electrical			
Comparative Tracking Index (CTI), (Solution A)	575	V	IEC 60112
Surface Resistivity	1000000000 00000	ohm	IEC 60093
Flammable			
Burning Rate, (FMVSS)	<100	mm/min	FMVSS
Glow Wire Flammability Index	650	°C	IEC 60695-2-12
Additional Information			
Molding Shrinkage	1	%	ISO 294-4
Water Absorption 24h/23C	1.1	%	ISO 62
UL Information			
Flame Rating, (1.6 mm)	HB		UL 94

Injection Parameters	Nominal Value	Units
Drying Time	3.0 to 4.0	hr
Drying Temperature	80	°C
Processing (Melt) Temp	250 to 280	°C
Mold Temperature	60 to 100	°C